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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,552	11/16/2001	Pingsha Dong	BAT 0031 PA	5230
7590 02/24/2004			EXAMINER	
Killworth, Gottman, Hagan & Schaeff, L.L.P.			MARTIR, LILYBETT	
One Dayton Cer Dayton, OH 4			ART UNIT	PAPER NUMBER
Duyton, Off 4	5-102-2025		2855	

DATE MAILED: 02/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/992,552	DONG ET AL.	
Office Action Summary	Examiner	Art Unit	·
	Lilybett Martir	2855	$\rho\omega$
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet v	vith the correspondence add	Iress
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	36(a) In no event, however, may a sy within the statutory minimum of the will apply and will expire SIX (6) MC a, cause the application to become become	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this constant of the constant	
Status			
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowa closed in accordance with the practice under the second se	s action is non-final. nce except for formal ma	• •	merits is
Disposition of Claims			
 4) Claim(s) 1-49 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-49 are subject to restriction and/or 	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	cepted or b) objected to drawing(s) be held in abeyation is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CF	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in prity documents have bee tu (PCT Rule 17.2(a)).	Application No n received in this National S	Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No	r Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO	-152)

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Art Unit: 2855

DETAILED ACTION

Election/Restrictions

The inventions are distinct, each from the other because of the following reasons:

- 1. This application contains claims directed to the following patentably distinct species of the claimed invention: There appear to be nine different embodiments in the current application. The first one, 1.1 Stress Analysis by Using Stress Distributions σ_x (y) and $\tau_{xy}(y)$, as defined in Pages 11-13, lines 25-30. The second one, 1.2 Stress Analysis by using Stress Resultants, as defined in Page 14, lines 1-22. The third one, 1.3 Special Applications – Partial Thickness Fatigue Crack, as de fined in Pages 14-17, lines 25-11. The fourth one, 1.4 Special Applications – Non-Monothonic Through-Thickness Distributions, as defined in Pages 17-20, lines 14-25. The fifth one, 2.1 Conversion of Nodal Forces and Moments Retrieved Directly, Pages 20-21, lines 27-20. The sixth one, 2.2 Conversion of Nodal Forces and Moments by Generating Stiffness Matrices and Nodal Displacements from the Shell Model, as defined in Pages 22-23, lines 21-30. The seventh one, 2.3 Conversion of Nodal Forces and Moments from Three-Dimensional Solid Model, as defined in Page 24, lines 1-20. The eight one, 3.1, Monotonic Through-Thickness Distributions, as defined in Pages 24-26, lines 28-6. And the ninth one, 3.2 Non-monotonic Through-Thickness Stress Distributions, as defined in Pages 26-27, lines 8-14.
- 2. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none of the claims are found to be generic.

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3. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

- 4. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).
- 5. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention. A telephone call was made to James E. Beyer on February 11, 2004 to request an oral election to the above restriction requirement, but did not result in an election being made.
- 6. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143). Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR

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1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lilybett Martir whose telephone number is (571)272-2182. The examiner can normally be reached on 9:00 AM to 5:30 PM.
- 8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on (571)272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- 9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lilybett Martir Examiner Art Unit 2855

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RM

EDWARD REFKOWITZ SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

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